

SPECIFICATIONS

Standard Features

- Disinfectant-ready plastics in a healthcare color scheme
- Apple® iOS, Android and Windows® Mobile connectivity
- Direct thermal printing of barcodes, text and graphics
- CPCL, EPL™ and ZPL® programming languages
- 512 MB Flash supports downloadable programs, receipt formats, fonts and graphics (128 MB available for user storage)
- 3250 mAh (nominal) 23.4 Wh removable, rechargeable PowerPrecision+ Li-Ion battery
- Built-in battery charger
- Belt clip for unobtrusive and convenient printing
- Black mark and gap media sensing using fixed center position sensors
- Easy-to-use peel and present mode
- Label present sensor for issuing labels one at a time
- Tear bar for easy media dispensing
- Center-loading media locking for variable roll widths
- “Clamshell” design for easy media loading
- Management: Mirror, SNMP, Web server, Profile Manager, AirWatch®, SOTI® MobiControl™ and Ivanti Avalanche® (powered by Wavelink)
- Large, easy-to-read color display (288 x 240 pixels)
- Color display can be customized using WML (text and icons)
- 5-way navigation buttons, two software defined keys
- Printer color alerts on the display
- Tolerance of multiple drops from 5 ft./1.52 m to concrete
- IP54 dust and water resistance rating
- 400 MHz 32-bit ARM processor
- XML support
- Supports vertical and horizontal printing
- Printers can be used in any orientation
- QR barcode links to web-based help pages
- Zebra Print Touch simplifies Bluetooth pairing and launches web-based help pages with Near Field Communication (NFC) enabled devices
- Label odometer
- NTP (Network Time Protocol) support via Wi-Fi or Ethernet
- Supports Zebra Network Connect manufacturing plant floor solution when used with the Ethernet cradle

Physical Characteristics

Dimensions

ZQ610: 6.5 in. L x 3.5 in. W x 2.75 in. H
165 mm L x 89 mm W x 70 mm H
ZQ620: 6.8 in. L x 4.6 in. W x 3.3 in. H
173 mm L x 117 mm W x 84 mm H

Weight With Battery

ZQ610: 1.33 lbs/0.6 kg
ZQ620: 1.6 lbs/0.73 kg

Printer Specifications

Operating System

| |
|---|
| Link-OS® |
| Resolution |
| 203 dpi/8 dots per mm |
| Memory |
| 256 MB RAM; 512 MB Flash (standard) |
| Maximum Print Width |
| ZQ610: 1.9 in./48 mm ZQ620: 2.8 in./72 mm |
| Maximum Print Speed |
| Up to 4.5 in./115 mm per second |
| Media Sensors |
| Black mark and gap media sensing using fixed center position sensors; label present sensor for issuing batch labels one at a time |
| Print Length |
| Minimum: 0.5 in./12.7 mm Maximum: 32 in./813 mm |
| Power |
| 3250 mAh (nominal) 23.4 Wh removable, rechargeable PowerPrecision+ Li-Ion battery |

Media Characteristics

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| Maximum Label and Liner Length |
| ZQ610: 0.5 in./12.7 mm to 32 in./813 mm or continuous ZQ620: 0.5 in./12.7 mm to 32 in./813 mm or continuous |
| Media Width |
| ZQ610: 1.0 in./25 mm to 2.18 in./55.4 mm ZQ620: 1.0 in./25 mm to 3.125 in./79 mm |
| Maximum Media Roll Size |
| ZQ610: 2.2 in./55.9 mm OD on a 0.75 in./19 mm or 1.375 in./34.9 mm inner core ZQ620: 2.6 in./66 mm OD on a 0.75 in./19 mm or 1.375 in./34.9 mm inner core |
| Thickness |
| 2.3 mil to 5.5 mil tag stock or 6.5 mil label stock |
| Media Types |
| Die-cut labels and tags, linerless labels, receipt paper, RFID (ZQ630 RFID compatible), black bar and gap sensing |

Operating Characteristics

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| Environment |
| Operating Temp.: 32°F to 122°F/0°C to 50°C Operating Humidity: |

10% to 90% non-condensing
Storage/Transportation Temp.:
-13°F to 149°F/-25°C to 65°C1
Storage Humidity:
10% to 90% non-condensing

Agency Approvals

Emissions: FCC Part 15, Subpart B, EN55022 Class-B, EN60950, EN55024 and VCCI class B
Susceptibility: EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-4, and EN61000-4-5
Safety: CE, TUV, CSA

Firmware

CPCL, EPL and ZPL programming languages

ZBI 2.x™—powerful programming language that lets printers run standalone applications, connect to peripherals, and much more

Barcode Symbolologies

- Barcode Ratios: 1.5:1, 2:1, 2.5:1, 3:1, 3.5:1
- Linear Barcodes: Code 39, Code 93, UCC/EAN128, Code 128, Codabar (NW-7), Interleaved 2-of-5, UPC-A, UPC-E, 2 and 5 digit add-on, EAN-8, EAN-13, 2 and 5 digit add-on
- PDF417, MicroPDF417, MaxiCode, QR Code, GS1/DataBar™ (RSS) family, Aztec, MSI/ Plessey, FIM Postnet, Data Matrix, TLC39

Fonts and Character Sets

Standard Fonts: 25 bitmapped, 1 smooth, scalable (CG Triumvirate Bold Condensed*)

Optional Fonts: downloadable bitmapped/scalable fonts

International Character Sets (optional): Chinese (traditional/simplified); Japanese; Korean; Thai, Vietnamese

Communication and Interface Capabilities

ZebraNet® 802.11ac radio with support for:

- WEP, TKIP and AES encryption
- WPA and WPA2
- 802.1x (with WEP, WPA or WPA2)
- EAP-FAST, EAP-TTLS, EAP-TLS, PEAP, LEAP
- 802.11d and 802.11i
- Simultaneous Bluetooth 4.2 dual radio
- Wi-Fi Certification
- Fast roaming using Pairwise Master Key (PMK) caching, Opportunistic Key Caching (OKC), EAP Fast Session resumption or 802.11r

Bluetooth 4.2 (Classic and BLE) radio

- Security modes 1 – 4
- Made for iPod/iPhone/iPad™ certified
- Key Bonding

10/100 Ethernet support (via charging cradle)

Cabled Communications Specifications

- USB 2.0 full-speed interface (12 Mbps)
- Mini-B connector with optional strain relief innovations
- Serial interface: 14-pin RS-232C port for communication to terminal or other host up to 115.2 Kbps

Options and Accessories

Following is a list of key accessories. Please refer to the Mobile Printer Accessory Guide for a detailed list of all the accessories available for the ZQ600 Series:

Charging Options—inside the printer

- IEC 60601-certified AC adapter for medical environments
- Single cradle: single bay Ethernet and charging cradle with IEC60601 AC adapter
- Quad cradle: quad bay Ethernet and charging cradle and AC adapter, with internal switch and stacking port

Charging Options—outside the printer

- 1-bay, 3-bay and 6-bay battery chargers

Spare batteries

Carrying Options

- Shoulder strap: available in standard or healthcare version (healthcare version offers the same tolerance to cleaning agents as the printer)
- Hand strap
- Soft case: provides an IP54 rating

Linerless printing (with silicone platen roller only)—ZQ620 only

ZBI 2.x

Printer stand for tabletop mounting

Serial and USB cables with strain relief

Product Warranty

The ZQ600 Series printers are warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For the complete warranty statement, please visit:

www.zebra.com/warranty

Recommended Services

Zebra OneCare Essential and Select Services maximize the availability and productivity of your devices. Key features include 24/7 technical support, comprehensive coverage, advance replacement and software updates. Optional Visibility Services are available. For more information go to

www.zebra.com/zebraonecare

(Note: Service availability may vary by region.)

Footnotes

*Contains UFST® from Agfa Monotype Corporation

Print DNA Software

Print DNA suite of software will get your printer up and running quickly and securely. For more information, please visit

www.zebra.com/printdna

Markets and Applications

Healthcare

- Mobile Specimen Collection
- Blood Bank Management
- Breast Milk Labeling